

What Is Claimed Is:

1. A multi-domain liquid crystal display device comprising:

first and second substrates facing each other;

a conductive layer distorting electric field on said first substrate;

a common-auxiliary electrode on a same layer whereon said conductive layer distorting electric field is formed;

a common electrode on said second substrate;

a liquid crystal layer between said first and second substrates; and

a storage electrode in an electric field inducing region that divides said liquid crystal layer into at least two domains.

2. The multi-domain liquid crystal display device according to claim 1, further comprising:

a pixel electrode on said conductive layer distorting electric field.

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according to claim 1, wherein said conductive layer distorting electric field is gate bus line.

4. The multi-domain liquid crystal display device according to claim 3, wherein said gate bus line is formed on a same layer whereon said storage electrode is formed.

5. The multi-domain liquid crystal display device according to claim 4, further comprising:

a supplementary storage electrode on said storage electrode to form a storage capacitor.

6. The multi-domain liquid crystal display device according to claim 5, wherein said supplementary storage electrode is source and drain electrodes.

7. The multi-domain liquid crystal display device according to claim 4, further comprising:

a supplementary storage electrode on said gate bus line and/or said common-auxiliary electrode.

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according to claim 4, wherein said storage electrode is electrically connected to said common-auxiliary electrode.

9. The multi-domain liquid crystal display device according to claim 1, wherein said conductive layer distorting electric field is source and drain electrodes.

10. The multi-domain liquid crystal display device according to claim 9, wherein said source and drain electrodes are formed on a same layer whereon said storage electrode is formed.

11. The multi-domain liquid crystal display device according to claim 2, wherein said pixel electrode overlaps said common-auxiliary electrode.

12. The multi-domain liquid crystal display device according to claim 2, wherein said pixel electrode is not overlapping said common-auxiliary electrode.

13. The multi-domain liquid crystal display device according to claim 1, wherein said storage electrode is a

light shielding layer.

14. The multi-domain liquid crystal display device according to claim 1, wherein said electric field inducing region is an electric field inducing window in said common electrode.

15. The multi-domain liquid crystal display device according to claim 1, wherein said electric field inducing region is a dielectric frame on said common electrode.

16. The multi-domain liquid crystal display device according to claim 2, wherein said electric field inducing region is an electric field inducing window in said pixel electrode.

17. The multi-domain liquid crystal display device according to claim 2, wherein said electric field inducing region is a dielectric frame on said pixel electrode.

18. The multi-domain liquid crystal display device according to claim 1, wherein said common-auxiliary

electrode includes a material selected from the group consisting of ITO (indium tin oxide), aluminum, molybdenum, chromium, tantalum, titanium, and an alloy thereof.

19. The multi-domain liquid crystal display device according to claim 2, wherein said pixel electrode includes a material selected from the group consisting of ITO (indium tin oxide), aluminum, and chromium.

20. The multi-domain liquid crystal display device according to claim 1, wherein said common electrode includes ITO (indium tin oxide).

21. The multi-domain liquid crystal display device according to claim 1, further comprising:

an alignment layer on at least one substrate between said first and second substrates.

22. The multi-domain liquid crystal display device according to claim 21, wherein said alignment layer is divided into at least two portions, liquid crystal molecules in said liquid crystal layer in each portion

being aligned differently from each other.

23. The multi-domain liquid crystal display device according to claim 22, wherein at least one portion of said the alignment layer is alignment-treated.

24. The multi-domain liquid crystal display device according to claim 22, wherein all portions of said the alignment layer are non-alignment-treated.

25. The multi-domain liquid crystal display device according to claim 1, wherein said liquid crystal layer includes liquid crystal molecules having positive dielectric anisotropy.

26. The multi-domain liquid crystal display device according to claim 1, wherein said liquid crystal layer includes liquid crystal molecules having negative dielectric anisotropy.

27. The multi-domain liquid crystal display device according to claim 1, further comprising:

a negative uniaxial film on at least one substrate between said first and second substrates.

28. The multi-domain liquid crystal display device according to claim 1, further comprising:

a negative biaxial film on at least one substrate between said first and second substrates.

29. The multi-domain liquid crystal display device according to claim 1, wherein said liquid crystal layer includes chiral dopants.

30. A multi-domain liquid crystal display device comprising:

first and second substrates facing each other;

a pixel electrode on said first substrate;

a common-auxiliary electrode on a same layer whereon said pixel electrode is formed;

a common electrode on said second substrate;

a liquid crystal layer between said first and second substrates; and

a storage electrode in an electric field inducing

region that divides said liquid crystal layer into at least two domains.

31. The multi-domain liquid crystal display device according to claim 30, wherein said pixel electrode is on said storage electrode.

32. The multi-domain liquid crystal display device according to claim 30, wherein said storage electrode is a light shielding layer.

33. The multi-domain liquid crystal display device according to claim 30, further comprising:

a supplementary storage electrode in a region other than a region where said pixel electrode is formed.

34. The multi-domain liquid crystal display device according to claim 30, wherein said electric field inducing region is an electric field inducing window in said common electrode.

35. The multi-domain liquid crystal display device



according to claim 30, wherein said electric field inducing region is a dielectric frame on said common electrode.

36. The multi-domain liquid crystal display device according to claim 30, wherein said electric field inducing region is an electric field inducing window in said pixel electrode.

37. The multi-domain liquid crystal display device according to claim 30, wherein said electric field inducing region is a dielectric frame on said pixel electrode.

38. The multi-domain liquid crystal display device according to claim 30, wherein said common-auxiliary electrode includes a material selected from the group consisting of ITO (indium tin oxide), aluminum, molybdenum, chromium, tantalum, titanium, and an alloy thereof.

39. The multi-domain liquid crystal display device according to claim 30, wherein said pixel electrode includes a material selected from the group consisting of ITO (indium tin oxide), aluminum, and chromium.

40. The multi-domain liquid crystal display device according to claim 30, wherein said common electrode includes ITO (indium tin oxide).

41. The multi-domain liquid crystal display device according to claim 30, further comprising:

an alignment layer on at least one substrate between said first and second substrates.

42. The multi-domain liquid crystal display device according to claim 41, wherein said alignment layer is divided into at least two portions, liquid crystal molecules in said liquid crystal layer in each portion being aligned differently from each other.

43. The multi-domain liquid crystal display device according to claim 42, wherein at least one portion of said the alignment layer is alignment-treated.

44. The multi-domain liquid crystal display device according to claim 42, wherein all portions of said the alignment layer are non-alignment-treated.

45. The multi-domain liquid crystal display device according to claim 30, wherein said liquid crystal layer includes liquid crystal molecules having positive dielectric anisotropy.

46. The multi-domain liquid crystal display device according to claim 30, wherein said liquid crystal layer includes liquid crystal molecules having negative dielectric anisotropy.

47. The multi-domain liquid crystal display device according to claim 30, further comprising:

a negative uniaxial film on at least one substrate between said first and second substrates.

48. The multi-domain liquid crystal display device according to claim 30, further comprising:

a negative biaxial film on at least one substrate between said first and second substrates.

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according to claim 30, wherein said liquid crystal layer includes chiral dopants.